

Postdoctoral fellowship in theoretical nuclear physics at GANIL (Grand Accélérateur National d'Ions Lourds) Caen, France

The Grand Accélérateur National d'Ions Lourds (GANIL) calls for applications of a postdoctoral researcher for a two year position, starting from January 2024, in the field of theoretical nuclear physics in the area of nuclear structure and reactions with exotic nuclei. Review of applications will start on June 16, 2023 and continue until the successful candidate will be identified.

The successful candidate will be leading a research project aiming at the development of the methods and various applications of the continuum shell model. This include the formulation and application of the Gamow shell model (GSM) in the coupled-channel formulation for the description of various reactions at low energies in the vicinity of the particle emission threshold in light and medium-heavy nuclei. Of particular interest will be the formation of near-threshold resonances and their role in the nucleosynthesis of light elements and alternative paths branching out of the BBN and CNO cycles.

Applicants are expected to have a Ph.D. in nuclear theory by the beginning of the postdoctoral appointment. Independence and ability to share the expertise or to collaborate with different groups at GANIL is preferred. The successful candidate is expected to show evidence of the ability to carry out excellent research in an area relevant to the GANIL research program of exotic nuclei and demonstrate a strong background in nuclear reaction and nuclear structure modeling. Experience in high-performance computing and large-scale modeling of nuclear structure and reactions will be an advantage.

Questions regarding the position can be sent to Marek Płoszajczak (ploszajczak@ganil.fr).

The applicants are requested to submit a detailed curriculum vitae, a cover letter, a list of publications, conference and seminar presentations and three letters of recommendation to Marek Płoszajczak (ploszajczak@ganil.fr).

You can apply by following the link :

<https://emploi.cnrs.fr/Offres/CDD/UAR3266-VIRLEF-058/Default.aspx>